PE TITLE: Depot Maintenance (Non-If)

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									February 1999		
BUDGET ACTIVITY 7 - Operational System Developmen		NUMBER AND <b>702207F</b>		intenanc	e (Non-If	)		ROJECT <b>3326</b>			
COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate		FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost	
3326 Precision Measurement & Calibration	1,387	1,496	1,5	00 1,529	1,546	1,572	1,603	1,631	Continuing	TBD	
Quantity of RDT&E Articles	0	0		0 0	0	0	0	0	0	0	

#### (U) A. Mission Description

This program develops, tests, and evaluates national and Air Force measurement standards and calibration equipment in support of all Air Force programs and activities, including 119 Precision Measurement Equipment Laboratories (PMELs) worldwide. Metrology research and development provides technology to support systems in all phases of development and acquisition, as well as Air Force R&D laboratories, test ranges, ground test facilities, and operational weapons systems support. Rapidly changing technology requires continuing research and development of measurement standards and calibration equipment to ensure modern weapon systems meet Air Force readiness objectives. This program addresses all metrology disciplines and includes the technology areas of laser, infrared, microwave, millimeter wave, optical, physical, mechanical, electrical, electronic, and ionizing radiation measurements. Metrology is a technical discipline devoted to the science of measurements and to the study and improvement of measurement technology. Measurements are the foundation of military system development, quality assurance, hardware conformance testing and system readiness tests. The integrity of these tests is assured through calibration and traceability assurance schemes. The capability to measure and calibrate must parallel the emergence of new technology, new ranges, and new capabilities of military systems. Lack of new measurement capability impedes or blocks the successful exploitation of new technologies, especially in the movement from development laboratory to production to deployment. R&D efforts are essential within the DoD to pace these requirements, otherwise, these same new systems will suffer time delays, excessive cost, and increased risk due to unreliable test results in all phases of development, production, deployment and operation.

Project 3326 Page 1 of 6 Pages Exhibit R-2 (PE 0702207F)

	February 1999			
DGET ACTIVIT		stem Development	PE NUMBER AND TITLE 0702207F Depot Maintenance (Non-If)	PROJEC <b>3326</b>
(U) <u>FY 19</u>	998 (\$ in '	'housands):		
– (U)	\$792	Complete development of a high sensitivity pyroelectric portable cryogenic radiometer to characterize infrared te support Air Force infrared / laser / electro-optical weapo	st chambers. Continue development of other national n	
– (U)	\$205	Complete the microwave high power standards and conticorss-section test range measurements to support radar a	nue development of microwave standards for noise fig	ure measurements and radar
- (U)	\$145	Begin development of methods to characterize micro-ele reduce coordinate measuring machine (CMM) measuren	ctromechanical sensors (MEMS) and continue develop	ment of improved methods to
– (U)	\$180	Begin development of methods to determine the frequence standards for electrical resistance and development of his	cy response characterization of capacitors; and continue	*
– (U)	\$65	Begin the large area alpha radiation source metrology pr and Technology (NIST) traceability for calibration of i	•	Vational Institute of Standards
– (U)	\$1,387	Total		
(U) <u>FY 19</u> – (U)	999 (\$ in ' \$685	<u>Chousands):</u> Complete the development of an improved blackbody ca radiometer, tunable lasers for radiometry and detector sta fiber optic metrology and radiance response with uniform to support Air Force infrared / laser / electro-optical wea	andards for long wavelength infrared measurements; be a sources projects; and continue development of other r	egin the tunable diode laser for
– (U)	\$266	Begin development of an upgraded microwave high pow communications systems, and radar cross-section range	er system and continue development of standards for ra	dar support, RF
– (U)	\$125	Complete development of methods to characterize micro calibration support for coordinate measuring machines (6)	-electromechanical sensors (MEMS) and continue deve	lopment of improved
– (U)	\$305	Begin development of improved thin film multijunction to support high accuracy electronic test equipment.	•	
- (U)	\$65	Complete the beta measurement traceability project, comnational standards for calibration of ionizing radiation h		oject and the development of
- (U)	\$50	Identified as source for SBIR		
– (U)	\$1,496	Total		

· - · · · · · · · · · · · · · · · · · ·	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)  DATE February							
<ul> <li>(U) \$697 Begin collimated infrared irradiance radiometer project to calibrate infrared target simulators and continue development of national measurement standards to support Air Force infrared / laser / electro-optical weapon systems and support equipment.</li> <li>(U) \$260 Complete the upgrade to the microwave high power system and continue development of standards for radar support, RF communications systems, and radar cross-section range measurements.</li> <li>(U) \$170 Continue development of improved calibration support for coordinate measuring machines (CMMs), and continue development of standard support physical, mechanical and electro-mechanical support equipment.</li> <li>(U) \$340 Complete the fast electrical pulse calibration and standards project and continue development of standards for electrical measurements to support high accuracy electronic test equipment.</li> <li>(U) \$33 Complete the large area alpha radiation source metrology project and continue the development of national standards for calibration of ion radiation hazard instrumentation.</li> <li>(U) \$1,500 Total</li> <li>(U) \$72 2001 (\$ in Thousands):         <ul> <li>(U) \$716 Complete the tunable diode laser for fiber optic metrology project and continue development of national measurement standards to support Force infrared / laser / electro-optical weapon systems and support equipment.</li> <li>(U) \$150 Complete development of standards for radar support, RF communications systems, and radar cross-section range measurements.</li> <li>(U) \$150 Complete development of improved calibration support for coordinate measuring machines (CMMs), and continue development of standards upport equipment.</li> <li>(U) \$345 Complete development of improved calibration support for coordinate measuring machines (CMMs), and continue development of standards for electrical measurements to support high accuracy electro-mechanical support of standards for electrical measure</li></ul></li></ul>			al Sy	stem Development		PROJEC <b>1f)</b> 3326		
<ul> <li>(U) \$697 Begin collimated infrared irradiance radiometer project to calibrate infrared target simulators and continue development of national measurement standards to support Air Force infrared / laser / electro-optical weapon systems and support equipment.</li> <li>(U) \$260 Complete the upgrade to the microwave high power system and continue development of standards for radar support, RF communications systems, and radar cross-section range measurements.</li> <li>(U) \$170 Continue development of improved calibration support for coordinate measuring machines (CMMs), and continue development of standard support physical, mechanical and electro-mechanical support equipment.</li> <li>(U) \$340 Complete the fast electrical pulse calibration and standards project and continue development of standards for electrical measurements to support high accuracy electronic test equipment.</li> <li>(U) \$33 Complete the large area alpha radiation source metrology project and continue the development of national standards for calibration of ion radiation hazard instrumentation.</li> <li>(U) \$1,500 Total</li> <li>(U) \$716 Complete the tunable diode laser for fiber optic metrology project and continue development of national measurement standards to support Force infrared / laser / electro-optical weapon systems and support equipment.</li> <li>(U) \$150 Complete development of standards for radar support, RF communications systems, and radar cross-section range measurements.</li> <li>(U) \$10 Complete development of standards for radar support for coordinate measuring machines (CMMs), and continue development of standar support physical, mechanical and electro-mechanical support equipment.</li> <li>(U) \$345 Complete the Hall effect resistance standard project, the frequency response characteristics of capacitors projects and the improved thin film multijunction thermoconverter project; and continue development of standards for electrical measurements to support high accuracy electricat</li></ul>								
measurement standards to support Air Force infrared / laser / electro-optical weapon systems and support equipment.  Complete the upgrade to the microwave high power system and continue development of standards for radar support, RF communications systems, and radar cross-section range measurements.  Continue development of improved calibration support for coordinate measuring machines (CMMs), and continue development of standard support physical, mechanical and electro-mechanical support equipment.  Complete the fast electrical pulse calibration and standards project and continue development of standards for electrical measurements to support high accuracy electronic test equipment.  Complete the large area alpha radiation source metrology project and continue the development of national standards for calibration of ion radiation hazard instrumentation.  Total  (U) FY 2001 (\$ in Thousands):  (U) \$716 Complete the tunable diode laser for fiber optic metrology project and continue development of national measurement standards to support Force infrared / laser / electro-optical weapon systems and support equipment.  (U) \$265 Continue development of standards for radar support, RF communications systems, and radar cross-section range measurements.  Complete development of improved calibration support for coordinate measuring machines (CMMs), and continue development of standar support physical, mechanical and electro-mechanical support equipment.  Complete the Hall effect resistance standard project, the frequency response characteristics of capacitors projects and the improved thin fill multijunction thermoconverter project; and continue development of standards for electrical measurements to support high accuracy electrost test equipment.  Continue the development of national standards for calibration of ionizing radiation hazard instrumentation.	(U) <u>F</u>	Y 2000	(\$ in 7	housands):				
<ul> <li>(U) \$260 Complete the upgrade to the microwave high power system and continue development of standards for radar support, RF communications systems, and radar cross-section range measurements.</li> <li>(U) \$170 Continue development of improved calibration support for coordinate measuring machines (CMMs), and continue development of standards support physical, mechanical and electro-mechanical support equipment.</li> <li>(U) \$340 Complete the fast electrical pulse calibration and standards project and continue development of standards for electrical measurements to support high accuracy electronic test equipment.</li> <li>(U) \$33 Complete the large area alpha radiation source metrology project and continue the development of national standards for calibration of ion radiation hazard instrumentation.</li> <li>(U) \$1,500 Total</li> <li>(U) \$716 Complete the tunable diode laser for fiber optic metrology project and continue development of national measurement standards to support Force infrared / laser / electro-optical weapon systems and support equipment.</li> <li>(U) \$265 Continue development of standards for radar support, RF communications systems, and radar cross-section range measurements.</li> <li>(U) \$170 Complete development of improved calibration support for coordinate measuring machines (CMMs), and continue development of standards support physical, mechanical and electro-mechanical support equipment.</li> <li>(U) \$345 Complete the Hall effect resistance standard project, the frequency response characteristics of capacitors projects and the improved thin film multijunction thermoconverter project; and continue development of standards for electrical measurements to support high accuracy electrotest equipment.</li> <li>(U) \$33 Continue the development of national standards for calibration of ionizing radiation hazard instrumentation.</li> </ul>	-	(U)	\$697					
systems, and radar cross-section range measurements.  - (U) \$170 Continue development of improved calibration support for coordinate measuring machines (CMMs), and continue development of standard support physical, mechanical and electro-mechanical support equipment.  - (U) \$34 Complete the fast electrical pulse calibration and standards project and continue development of standards for electrical measurements to support high accuracy electronic test equipment.  - (U) \$33 Complete the large area alpha radiation source metrology project and continue the development of national standards for calibration of ion radiation hazard instrumentation.  - (U) \$1,500 Total  (U) \$716 Complete the tunable diode laser for fiber optic metrology project and continue development of national measurement standards to support Force infrared / laser / electro-optical weapon systems and support equipment.  - (U) \$265 Continue development of standards for radar support, RF communications systems, and radar cross-section range measurements.  - (U) \$170 Complete development of improved calibration support for coordinate measuring machines (CMMs), and continue development of standar support physical, mechanical and electro-mechanical support equipment.  - (U) \$345 Complete the Hall effect resistance standard project, the frequency response characteristics of capacitors projects and the improved thin film multijunction thermoconverter project; and continue development of standards for electrical measurements to support high accuracy electroest equipment.  - (U) \$33 Continue the development of national standards for calibration of ionizing radiation hazard instrumentation.	_ (	(II)	\$260					
support physical, mechanical and electro-mechanical support equipment.  Complete the fast electrical pulse calibration and standards project and continue development of standards for electrical measurements to support high accuracy electronic test equipment.  Complete the large area alpha radiation source metrology project and continue the development of national standards for calibration of ion radiation hazard instrumentation.  Total  (U) FY 2001 (\$ in Thousands):  (U) FY 2001 (\$ in Thousands):  (U) \$716 Complete the tunable diode laser for fiber optic metrology project and continue development of national measurement standards to support Force infrared / laser / electro-optical weapon systems and support equipment.  (U) \$265 Continue development of standards for radar support, RF communications systems, and radar cross-section range measurements.  (U) \$170 Complete development of improved calibration support for coordinate measuring machines (CMMs), and continue development of standards support physical, mechanical and electro-mechanical support equipment.  Complete the Hall effect resistance standard project, the frequency response characteristics of capacitors projects and the improved thin file multijunction thermoconverter project; and continue development of standards for electrical measurements to support high accuracy electrotest equipment.  (U) \$33 Continue the development of national standards for calibration of ionizing radiation hazard instrumentation.	,	(0)	φ200			support, it communications		
<ul> <li>(U) \$340 Complete the fast electrical pulse calibration and standards project and continue development of standards for electrical measurements to support high accuracy electronic test equipment.</li> <li>(U) \$33 Complete the large area alpha radiation source metrology project and continue the development of national standards for calibration of ion radiation hazard instrumentation.</li> <li>(U) \$1,500 Total</li> <li>(U) \$716 Complete the tunable diode laser for fiber optic metrology project and continue development of national measurement standards to support Force infrared / laser / electro-optical weapon systems and support equipment.</li> <li>(U) \$265 Continue development of standards for radar support, RF communications systems, and radar cross-section range measurements.</li> <li>(U) \$170 Complete development of improved calibration support for coordinate measuring machines (CMMs), and continue development of standard support equipment.</li> <li>(U) \$345 Complete the Hall effect resistance standard project, the frequency response characteristics of capacitors projects and the improved thin file multijunction thermoconverter project; and continue development of standards for electrical measurements to support high accuracy electrotest equipment.</li> <li>(U) \$33 Continue the development of national standards for calibration of ionizing radiation hazard instrumentation.</li> </ul>	- (	(U)	\$170			ntinue development of standards		
support high accuracy electronic test equipment.  (U) \$33 Complete the large area alpha radiation source metrology project and continue the development of national standards for calibration of ion radiation hazard instrumentation.  (U) \$1,500 Total  (U) \$716 Complete the tunable diode laser for fiber optic metrology project and continue development of national measurement standards to support Force infrared / laser / electro-optical weapon systems and support equipment.  (U) \$265 Continue development of standards for radar support, RF communications systems, and radar cross-section range measurements.  (U) \$170 Complete development of improved calibration support for coordinate measuring machines (CMMs), and continue development of standard support physical, mechanical and electro-mechanical support equipment.  (U) \$345 Complete the Hall effect resistance standard project, the frequency response characteristics of capacitors projects and the improved thin film multijunction thermoconverter project; and continue development of standards for electrical measurements to support high accuracy electrotest equipment.  (U) \$33 Continue the development of national standards for calibration of ionizing radiation hazard instrumentation.	_ (	an :	\$340			or electrical measurements to		
radiation hazard instrumentation.  - (U) \$1,500 Total  (U) FY 2001 (\$ in Thousands):  - (U) \$716 Complete the tunable diode laser for fiber optic metrology project and continue development of national measurement standards to support Force infrared / laser / electro-optical weapon systems and support equipment.  - (U) \$265 Continue development of standards for radar support, RF communications systems, and radar cross-section range measurements.  - (U) \$170 Complete development of improved calibration support for coordinate measuring machines (CMMs), and continue development of standard support equipment.  - (U) \$345 Complete the Hall effect resistance standard project, the frequency response characteristics of capacitors projects and the improved thin film multijunction thermoconverter project; and continue development of standards for electrical measurements to support high accuracy electrotest equipment.  - (U) \$33 Continue the development of national standards for calibration of ionizing radiation hazard instrumentation.	,	(0)		support high accuracy electronic test equipment.				
<ul> <li>(U) \$1,500 Total</li> <li>(U) FY 2001 (\$ in Thousands):         <ul> <li>(U) \$716 Complete the tunable diode laser for fiber optic metrology project and continue development of national measurement standards to support Force infrared / laser / electro-optical weapon systems and support equipment.</li> <li>(U) \$265 Continue development of standards for radar support, RF communications systems, and radar cross-section range measurements.</li> <li>(U) \$170 Complete development of improved calibration support for coordinate measuring machines (CMMs), and continue development of standard support equipment.</li> <li>(U) \$345 Complete the Hall effect resistance standard project, the frequency response characteristics of capacitors projects and the improved thin film multijunction thermoconverter project; and continue development of standards for electrical measurements to support high accuracy electrotest equipment.</li> <li>(U) \$33 Continue the development of national standards for calibration of ionizing radiation hazard instrumentation.</li> </ul> </li> </ul>	- (	(U)	\$33		netrology project and continue the development of national	standards for calibration of ioniz		
<ul> <li>(U) FY 2001 (\$ in Thousands):         <ul> <li>(U) \$716 Complete the tunable diode laser for fiber optic metrology project and continue development of national measurement standards to support Force infrared / laser / electro-optical weapon systems and support equipment.</li> <li>(U) \$265 Continue development of standards for radar support, RF communications systems, and radar cross-section range measurements.</li> <li>(U) \$170 Complete development of improved calibration support for coordinate measuring machines (CMMs), and continue development of standard support equipment.</li> <li>(U) \$345 Complete the Hall effect resistance standard project, the frequency response characteristics of capacitors projects and the improved thin film multijunction thermoconverter project; and continue development of standards for electrical measurements to support high accuracy electrotest equipment.</li> <li>(U) \$33 Continue the development of national standards for calibration of ionizing radiation hazard instrumentation.</li> </ul> </li> </ul>	_ (	(II) \$1	500					
<ul> <li>(U) \$716 Complete the tunable diode laser for fiber optic metrology project and continue development of national measurement standards to support Force infrared / laser / electro-optical weapon systems and support equipment.</li> <li>(U) \$265 Continue development of standards for radar support, RF communications systems, and radar cross-section range measurements.</li> <li>(U) \$170 Complete development of improved calibration support for coordinate measuring machines (CMMs), and continue development of standard support physical, mechanical and electro-mechanical support equipment.</li> <li>(U) \$345 Complete the Hall effect resistance standard project, the frequency response characteristics of capacitors projects and the improved thin file multijunction thermoconverter project; and continue development of standards for electrical measurements to support high accuracy electrotest equipment.</li> <li>(U) \$33 Continue the development of national standards for calibration of ionizing radiation hazard instrumentation.</li> </ul>								
Force infrared / laser / electro-optical weapon systems and support equipment.  - (U) \$265 Continue development of standards for radar support, RF communications systems, and radar cross-section range measurements.  - (U) \$170 Complete development of improved calibration support for coordinate measuring machines (CMMs), and continue development of standar support physical, mechanical and electro-mechanical support equipment.  - (U) \$345 Complete the Hall effect resistance standard project, the frequency response characteristics of capacitors projects and the improved thin file multijunction thermoconverter project; and continue development of standards for electrical measurements to support high accuracy electrons test equipment.  - (U) \$33 Continue the development of national standards for calibration of ionizing radiation hazard instrumentation.	(U) <u>F</u>	Y 2001	(\$ in 7	housands):				
<ul> <li>(U) \$265 Continue development of standards for radar support, RF communications systems, and radar cross-section range measurements.</li> <li>(U) \$170 Complete development of improved calibration support for coordinate measuring machines (CMMs), and continue development of standard support physical, mechanical and electro-mechanical support equipment.</li> <li>(U) \$345 Complete the Hall effect resistance standard project, the frequency response characteristics of capacitors projects and the improved thin film multijunction thermoconverter project; and continue development of standards for electrical measurements to support high accuracy electrons test equipment.</li> <li>(U) \$33 Continue the development of national standards for calibration of ionizing radiation hazard instrumentation.</li> </ul>	-	(U)	\$716			asurement standards to support A		
<ul> <li>(U) \$170 Complete development of improved calibration support for coordinate measuring machines (CMMs), and continue development of standard support physical, mechanical and electro-mechanical support equipment.</li> <li>(U) \$345 Complete the Hall effect resistance standard project, the frequency response characteristics of capacitors projects and the improved thin fill multijunction thermoconverter project; and continue development of standards for electrical measurements to support high accuracy electrotest equipment.</li> <li>(U) \$33 Continue the development of national standards for calibration of ionizing radiation hazard instrumentation.</li> </ul>	_ (	(II)	\$265			range measurements		
multijunction thermoconverter project; and continue development of standards for electrical measurements to support high accuracy electrical test equipment.  - (U) \$33 Continue the development of national standards for calibration of ionizing radiation hazard instrumentation.				Complete development of improved calibration s	support for coordinate measuring machines (CMMs), and co			
- (U) \$33 Continue the development of national standards for calibration of ionizing radiation hazard instrumentation.	-	(U)	\$345	multijunction thermoconverter project; and conti				
	- (	(U)	\$33	* *	for calibration of ionizing radiation hazard instrumentation			
				<u> </u>	6			

Project 3326 Page 3 of 6 Pages Exhibit R-2 (PE 0702207F)

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)  DATE February 1999											
BUDGET ACTIVITY 7 - Operational System Development		PE NUMBER AN <b>0702207F</b>	D TITLE <b>Depot Mair</b>	n-lf)	PROJECT <b>3326</b>						
(U) B. <u>Budget Activity Justification:</u> This program is in bud	lget activity 7 - Op	erational System	Development be	ecause it supports o	pperational systems.						
. (U) C. Program Change Summary (\$ in Thousands)											
					Total						
(I) D ' D ' L (D L (EV) 1000 DD	FY 1998	FY 1999	FY 2000	FY 2001	Cost						
(U) Previous President's Budget FY 1999 PB	1,397	1,500	1,528	1,558	TBD						
(U) Appropriated Value	1,482	1,500									
(U) Adjustments to Appropriated Value a. Cong Reductions	10	4									
b. SBIR	-48 -37	-4									
c. Omnibus or Other Above Threshold Reprogram	-37 -10										
d. Below Threshold Reprogramming	-10										
(U) Adjustments to Budget Years Since FY 1999 PB			-28	-29							
(U) Current Budget Submit/FY 2000 PB	1,387	1,496	1,500	1,529	TBD						
(U) Significant Program Changes: Not Applicable											
(U) D. Other Program Funding Summary (\$ in Thousand	s): Not Applicable	e									
(U) E. Acquisition Strategy: Accomplish through intergov	vernmental transfer	between the Dep	partment of Defe	nse and the Depart	ment of Commerce.						
		•		•							
(U) F. Schedule Profile: Not Applicable											
(e) 1. <u>Selection 1. Market</u> 1. Market											
Project 3326	Pa	ige 4 of 6 Pages		E)	khibit R-2 (PE 0702)	207F)					

RD	T&E PROC	GRAM EL	EMENT/F	ROJECT	COST	BREAKD	OWN (R-	3)	DATE <b>F</b>	ebruary 19	999
7 - Operational System Development PE NUMBER AND TITLE 0702207F Depot Maintenance (Non-If)											ROJECT 3326
(U) A. <u>Project Co</u>	ost Breakdown (	(\$ in Thousan	<u>ds)</u>								
				FY 199	<u>98</u>	FY 1999	FY 2000	FY 2001			
(U) Quality Assura		Measurement S	tandards &	1,36		1,418	1,471	1,499			
Calibration Suppor (U) Travel	t)			2	27	28	29	30			
(U) Identified as a (U) Total	source for SBIR			1,38	37	50 1,496	1,500	1,529			
(U) B. Budget Ac	equisition Histor	ry and Plannii	ng Information	n (\$ in Thousa	<u>nds)</u>						
Performing Organ	nizations:										
Contractor or Government Performing Activity Identified as a source	Contract Method/Type or Funding Vehicle te for SBIR	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget	Budget <u>FY 1999</u> 50	Budget FY 2000	Budget <u>FY 2001</u>	Budget to Complete	Total <u>Program</u>
Product Developme	ent Organization	<u>s</u>									
National Institute of Standards & Technology	MIPR (DD FORM 448)	1st QTR	TBD	TBD	12,269	1,360	1,418	1,471	1,499	Continue	TBD
AFMC	In House	Various	TBD	TBD	118	3 27	28	29	30	Continue	TBD
Support and Manag	gement Organiza	<u>ations</u>									
Test and Evaluation	n Organizations										
Project 3326				Po	age 5 of 6 I	Pages		<u>E</u> xhil	oit R-3 (PE	0702207F)	

RDT	T&E PROG	RAM EL	EMENT/PRO	JECT COST B	REAKDO	F	DATE February 1999			
BUDGET ACTIVITY 7 - Operational	l System De	evelopmen	t		PE NUMBER AND TITLE 0702207F Depot Maintenance (Non-If					ROJECT <b>3326</b>
Government Furnis	hed Property: 1	N/A								
Item <u>Description</u> Identified as a source		Award or Obligation <u>Date</u>	Delivery <u>Date</u>	Total Prior to FY 1998	Budget FY 1998	Budget <u>FY 1999</u> 50	Budget FY 2000	Budget FY 2001	Budget to Complete	Tota <u>Progra</u>
Subtotal Product Dev Subtotal Support and Subtotal Test and Ev	d Management			12,387 0 0	1,387 0 0	1,446 0 0	1,500 0 0	1,529 0 0	Continue 0 0	TB
Total Project				12,387	1,387	1,496	1,500	1,529	Continue	TB
Project 3326				Page 6 of 6 Pag	05		Exh	ihit R-3 (PF	0702207F)	